## IN THE CLAIMS

1. (Original) In a bi-directional communication system performing a sequence of operations including groups of one or more individual operations having an associated status indication, a method for capturing indication of system status, comprising the steps of:

generating ordered status indications reflecting the status of completion of sequentially performed groups of operations wherein individual status indications are associated with corresponding groups of operations;

capturing said generated status indications;

retaining said captured status indications following initiation of repetition of said groups of operations; and

providing said retained captured status indications as identification of an attained operational status of said system for system operation diagnosis.

- 2. (Original) A method according to claim 1, wherein said bi-directional communication system is a cable modern, said generating step generates hierarchically ordered status indications, and said sequentially performed groups of operations comprise at least one of (a) an initialization procedure of said cable modern system, (b) a fault diagnosis procedure of said cable modern system and (c) an abnormal condition monitoring procedure of said cable modern system.
- 3. (Original) A method according to claim 1, wherein said groups of operations include two different operations from operations including (a) tuning, (b) ranging, (c) configuring, and (d) registering.
- 4. (Original) A method according to claim 1, wherein said status indications identify the status of groups of operations being performed prior to interruption by a condition including at least one of (a) a fault condition, (b) an abnormal operation condition and (c) a commanded interruption condition.

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5. (Original) A method according to claim 1, wherein said captured status indications identify the highest operational state reached in initialization of said system prior to an interruption and are provided in response to a User command.

- 6. (Original) A method according to claim 1, wherein said User command comprises selection of a power switch setting.
- 7. (Original) A method according to claim 1, wherein said capturing status indications are usable in combination for fault finding and problem diagnosis by a technician.
- 8. (Original) A method according to claim 1, wherein said providing step comprises at least one of (a) displaying said retained captured status indications to a User of said system, and (b) maintaining said retained captured status indications in memory accessible by a User of said system.
- 9. (Original) A method according to claim 8, wherein said providing step comprises retaining said captured status indications during re-cycling of said sequentially performed groups of operations.
- 10. (Original) A method according to claim 1, wherein said providing step comprises displaying said retained captured status indications as hierarchically ordered visual indicators comprising at least one of (a) LED's, (b) a visible progressive illuminated bar indicator, (c) non-LED illuminations and (d) audible indications.
- 11. (Original) A method according to claim 1, wherein said providing step comprises maintaining said retained captured status indications in a removable storage medium to be available during re-cycling of said sequentially performed groups of operations.

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12. (Original) A method according to claim 1, wherein said providing step comprises providing via remote access communication said retained captured status indications as hierarchically ordered fields of data indicators.

13. (Original) In a modem system performing an initialization procedure comprising a sequence of operations including groups of one or more individual operations having an associated status indication, a method for capturing indication of system status, comprising the steps of:

generating hierarchically ordered status indications reflecting the status if completion of sequentially performed groups of operations wherein individual status indications are associated with corresponding groups of operations and identify the status of groups of operations being performed prior to interruption by a condition including at least one of (a) a fault condition, (b) an abnormal operation condition and (c) a commanded interruption condition;

capturing said generated status indications;

retaining said captured status indications following initiation of repetition of said groups of operations; and

providing said retained captured status indications as identification of an attained operational status of said system for system operation diagnosis.

14. (As Amended) A method according to claim 13, wherein said sequentially performed groups of operations comprise at least one of (a) an initialization procedure of said eable modem system, (b) a fault diagnosis procedure of said eable modem system and (c) an abnormal condition monitoring procedure of said eable modem system.

15. (Original) A method according to claim 13, wherein said captured status indications identify the highest operational stated reached in initialization of said system.

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16. (Original) A method according to claim 13, wherein said captured status indications are useable in combination for fault finding and problem diagnosis by a technician.

17. (Original) A method according to claim 13, wherein said groups of operations include two different operations from operations including (a) tuning, (b) ranging, (c) configuring and (d) registering.

18. (Original) A method according to claim 13, wherein said captured status indications identify the highest operational state reached in initialization of said system prior to an interruption and are provided in response to a User command.

19. (Original) In a modem system performing an initialization procedure comprising a sequence of operations including groups of one or more individual operations having an associated status indication, a method for capturing indication of system status, comprising the steps of:

generating hierarchically ordered status indications reflecting the status of completion of sequentially performed groups of operations partitioned into a hierarchical sequence of operational levels with individual levels including one or more of (a) tuning, (b) ranging (c) configuring and (d) registering operations and having a corresponding status indication;

capturing said generated status indications;

retaining said captured status indications following initiation of repetition of said groups of operations; and

providing said retained captured status indications as identification of an attained operational status of said system for system operation diagnosis.

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20. (As Amended) A method according to claim 19, wherein said sequentially performed groups of operations comprise at least one of (a) an initialization procedure of said eable modern system, (b) a fault diagnosis procedure of said eable modern system and (c) an abnormal condition monitoring procedure of said eable modern system.

21. (Original) A method according to claim 19, wherein said captured status indications identify the highest operational state reached in initialization of said system.